DERWENT-ACC-NO:

2000-454756

DERWENT-WEEK:

200259

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TITLE:

Pressure application roller manufacture for electrophotographic system, involves removing heat resistant cylindrical tube in outer surface of fluororesin tube after adhesion of elastic layer

INVENTOR: GOTO, M; IZAWA, S

PATENT-ASSIGNEE: CANON KK[CANO]

PRIORITY-DATA: 1998JP-0355412 (November 30, 1998)

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE PAGES MAIN-IPC US 6440347 B1 August 27, 2002 N/A 000 B29C 033/76 JP 2000161344 A June 13, 2000 N/A 013 F16C 013/00

APPLICATION-DATA:

 PUB-NO
 APPL-DESCRIPTOR
 APPL-NO
 APPL-DATE

 US 6440347B1
 N/A
 1999US-0449739
 November 26, 1999

 JP2000161344A
 N/A
 1998JP-0355412
 November 30, 1998

INT-CL (IPC): B29C033/76, B29C045/14, B29C063/18, B29C063/42, B29C065/70, B29K027:12, B29L023:00, F16C013/00, G03G015/20

ABSTRACTED-PUB-NO: JP2000161344A

## BASIC-ABSTRACT:

NOVELTY - A metal core (21) with outer diameter smaller than inner diameter of fluororesin tube (23) and the tube are inserted inside cylindrical metallic mold (31) so that core is almost central for mold. A heat resistant cylindrical tube (24) is interposed between inner and peripheral surfaces of mold and fluororesin tube respectively. The resistant tube is removed from mold after liquid rubber hardening process.

DETAILED DESCRIPTION - Liquefied rubber is injected in space between core and tube. The melting point of heat resistant cylindrical tube formed in outer surface of fluororesin tube is more than 200 deg. C. When the fluororesin tube is inserted into the mold, the fitting of each plug of fluororesin tube is carried out to both end face of mold by using fixing unit. An INDEPENDENT CLAIM is also included for pressure application roller.

USE - To manufacture pressure application roller for heat fixing apparatus used in electrophotographic system (claimed).

ADVANTAGE - Since heat resistant cylindrical tube is maintained to outer side of fluororesin tube during the adhesion of elastic layer to inner side of tube, the producing of damage to surface of roller is prevented. The mold release characteristic on the surface of roller is maintained sufficiently.

DESCRIPTION OF DRAWING(S) - The figure shows the longitudinal cross section view and top view of pressure application roller manufacturing apparatus.

Metal core 21

Fluororesin tube 23

Cylindrical tube 24

Metallic mold 31

ABSTRACTED-PUB-NO: US 6440347B

**EQUIVALENT-ABSTRACTS:** 

NOVELTY - A metal core (21) with outer diameter smaller than inner diameter of fluororesin tube (23) and the tube are inserted inside cylindrical metallic mold (31) so that core is almost central for mold. A heat resistant cylindrical tube (24) is interposed between inner and peripheral surfaces of mold and fluororesin tube respectively. The resistant tube is removed from mold after liquid rubber hardening process.

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CHOSEN-DRAWING: Dwg.3/6

TITLE-TERMS: PRESSURE APPLY ROLL MANUFACTURE ELECTROPHOTOGRAPHIC SYSTEM REMOVE

HEAT RESISTANCE CYLINDER TUBE OUTER SURFACE TUBE AFTER ADHESIVE ELASTIC LAYER

DERWENT-CLASS: A14 A89 G08 P84 Q62 S06

CPI-CODES: A04-E10; A12-L05C1; G06-G08; G06-G08C;

EPI-CODES: S06-A06;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018; P0500 F\* 7A; S9999 S1661

Polymer Index [1.2]

018; ND07; K9698 K9676; K9574 K9483; Q9999 Q8991; Q9999 Q8617\*R

Q8606; Q9999 Q8651 Q8606; N9999 N5721\*R; N9999 N6440\*R

Polymer Index [1.3]

018; K9712 K9676

Polymer Index [2.1]

018 ; H0124\*R

Polymer Index [2.2]

018; ND07; K9698 K9676; K9574 K9483; Q9999 Q8991; Q9999 Q8617\*R

Q8606; Q9999 Q8651 Q8606; N9999 N5721\*R; N9999 N6440\*R

Polymer Index [2.3]

018; K9552 K9483

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-138896 Non-CPI Secondary Accession Numbers: N2000-338791